"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

POLYAKOV, I.Ya.; KUBANTSEV, B.S.; MEYYER, M.N.; SKHOLL', Ye.D.

Some features of the morphological and ecological variability of the lesser suslik (Citellus pygmaeus) in different parts of its range. Trudy VIZR no.12:34-50 '58. (MIRA 13:5)
(Suslika)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

GLADKINA, T.S., kand. sel'skokhozyaystvennykh nauk; MEYYER, M.N., kand. biologicheskikh nauk

Effect of ecological conditions and exterminatory measures on the different ages in the lesser suslik population. Trudy VIZR no.12:189-200 '58. (MIRA 13:5)
(West Kazakhstan Province--Suslika)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

GLADKINA, T.S.; MEYYER, M.N.; MOKEYEVA, T.M.

Morphological and physiological characteristics of two subspecies of the steppe lemming Lagurus lagurus abacanicus Serebr. and L. L. agressus Serebr. Zool. zhur. 41 no.2:260-274 F '62. (MIRA 15:4)

1. Laboratory of the Forecasts, All-Union Institute of Plant Protection, Leningrad.

(Lemmings)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MOKEYEVA, T.M., kand.sel'skokhoz.nauk; MEYYER, M.N., kand.biolog.nauk

Rodents as pests of grain crops and pastures in the Tuva A.S.S.R.
Zashch. rast. ot vred. i bol. 8 no.1:26-27 Ja '63. (MIRA 16:5)
(Tuva A.S.S.R.--Rodent control)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

GLADKINA, T.S.; MEYYER, M.N.; MOKEYEVA, T.M.

Intraspecific variations in small rodents. Dokl.AN SSSR 148 no.4:962-965 F '63. (MIRA 16:4)

1. Vsesoyuznyy institut zashchity rasteniy. Predstavleno akademikom Ye.N.Pavlovskim.
(Zoology—Variation) (Rodentia)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYER, N., inzhener.

Building a specialized pusher-tug fleet. Mech.transp. 14 [i.e. 15] no.3:21-22 Mr '56. (MLRA 9:8)
(Tugboats) (Shipbuilding)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, N., inzh.

Prospects for developing designs of cableless coupling devices.
Rech. transp. 19 no.3:26-31 Mr '60. (MIRA 14:5)
(Towing)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, N.

Semiautomatic coupling for navigation on lakes. Rech.transp. 19 no.7:20-23 Jl '60. (MIRA 13:8)
(Inland navigation) (Towing)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

IVA[illegible]KO, V., inzh.; [illegible]

Automatic coupli[illegible]ts. Mekh. transp. 20 no. 1:26 Ja '61. (MIRA 14:3)

(Automatic control devices) (Tugboats)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

RYZHOV, L., kand.tekhn.nauk; MEYYER, N., inzh.; PETLITSKIY, Yu., inzh.

Results of testing automatic linkages. Rech. transp. 20 no.5:18-22 My '61. (MIRA 14:5)

(Towing)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, N., inzh. (Gor'kiy)

Automatic coupling for ships. Tekh.mol. 29 no.8:14 '61.
(MIRA 14:11)

(Couplings)
(Automatic control)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

[illegible], N.R.

Upper [illegible] flora in the Valdai Hills. Vest. Mosk. un. Ser. 6: Biol., pochv. 20 no.2:10-14 Mr-Ap '65. (MIRA 18:5)

1. Kafedra vysshikh rastenii Moskovskogo universiteta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, R.S., veter. vrach

Media for the bacteriological study of meat for Salmonella.
Veterinariia 42 no.10:94 O '65. (MIRA 18:10)

1. Kalininskaya nauchno-proizvodstvennaya veterinarnaya laboratoriya.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, S.G.; MIRGAZEYEV, [illegible]

Mobile unit for the low-temperature separation of [illegible]
no.6113-7 '65.

1. Bashnefteproyekt.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, V.A.

Effect of drill shot on the nature of PS anomalies in bore holes of ore deposits. Uch. zap. LGU no.278:119-123 '59.
(MIRA 13:2)

(Electric prospecting)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, V.A.

Factors affecting measurement results in the electrode potential method. Uch. zap. LGU no.278:124-135 '59. (MIRA 13:2)
(Electric prospecting)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

S/194/62/000/004/021/105
D222/D309

AUTHORS: Meyyer, V. A. and Kuvaldin, V. A.

TITLE: Portable automatic apparatus for magnetic core sampling for semiconductors

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4-2-37p (V sb. Vopr. rudn. geofiz., no. 2, M., Gosgeoltekhizdat, 1961, 10-14)

TEXT: This is a short description of a portable automatic apparatus for core sampling for semiconductors developed at Leningrad University. The apparatus is designed for use with the standard core sampling recording instruments ЭС-42 (ES-42), СК-1 (SK-1), СК-100 (SK-100). The apparatus is intended mainly for work at iron ore deposits. It consists of a porous shell of 50 mm diameter and 1.5 m length, and the recording instrument. The supply source can be batteries of type 2С (2S) or 3S, or miniature accumulators (type НКН-10 (NKN-10)) of 12 - 15 V, and the current consumption is 45 - 50 mA. The range of measuring magnetic susceptibility is from

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100×10^{-6} (for 1 mm of the tracing tape) to 0.5 CGSM units. The shell contains a measuring bridge with a pickup in the form of an inductance coil, a 500 c/s oscillator and a matching stage (emitter follower). Inside the recording instrument there is a two-stage amplifier and a rectifier. The electric circuit is described and the values of the element ratings are given. The apparatus was tested in the summer of 1959 under field conditions in the working area of the Belgorod iron ore expedition, and gave satisfactory results. Diagrams obtained in pits of the Gostishev and Yakovlev deposits are analyzed, for shell speeds of 700 and 1500 m/hour. The total weight of the apparatus is about 20 kg. 3 figures. 2 references. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, V.A.; KUVALDIN, V.A.; BOGDANOV, B.N.

AMK-T apparatus for logging magnetic susceptibility on transistors.
Uch.zap.LGU no.303:267-273 '62. (MIRA 15:11)
(Magnetic prospecting--Electronic equipment)
(Automatic control)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

L 6378-66 EWT(1) GW

ACC NR: AP5026764 SOURCE CODE: UR/0286/65/000/017/0044/0044

INVENTOR: Dzhemilev, R. A.; Dolgirev, Ye. I.; Lyubavin, Yu. P.; Meyyer, V. A.; Nakhabtsev, V. S.; Ochkur, A. P.; Shapkov, G. G.

TITLE: Pickup for a radiometric x-ray analyzer. Class 21, No. 174285 [announced by Special Design Office of the State Geological Committee SSSR (Osoboye konstruktorskoye byuro Gosudarstvennogo geologicheskogo komiteta SSSR); Leningrad State University (Leningradskiy gosudrastvennyy universitet); and All-Union Scientific Research Institute of Exploratory Geophysics (Vsesoyuznyy nauchno-issledovatel'skiy institut razvedochnoy geofiziki)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 44

TOPIC TAGS: x ray analysis, x ray equipment, radiometry

ABSTRACT: This Author's Certificate introduces a pickup for a radiometric x-ray analyzer. The unit consists of a housing and a lead shield with collimation channels at an angle. A primary gamma source and x-ray detector are located in these channels. X-radiation is recorded in ore and rock deposits under natural conditions through a window in the housing made of a material with a low atomic number located at the vertex of the angle formed by the collimation channels.

UDC: 550.839 : 621 : 308.8

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L 6378-66
ACC NR: AP5026764

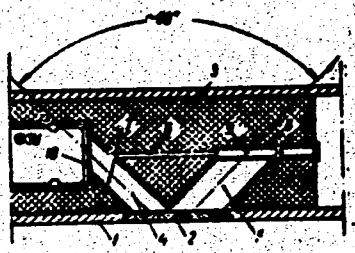

Fig. 1. 1--probe covering; 2--input window made of a material with a low atomic number; 3--lead shielding; 4--collimation channel of the detector; 5--collimation channel for the source; 6--channel for primary gamma rays used as a reference; 7--layer of material for screening out rays from the shielding; 8--can for the source; 9--source of gamma rays; 10--x-ray detector

SUB CODE: EE,EM/ SUBM DATE: 19Mar64/ ORIG REF: 000/ OTH REF: 000

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYER, V.A.; NAKHABTSEV, V.S.

Results of using X-ray-radiometric logging in central Kazakhstan.
Vest.LGU 20 no.12:65-73 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

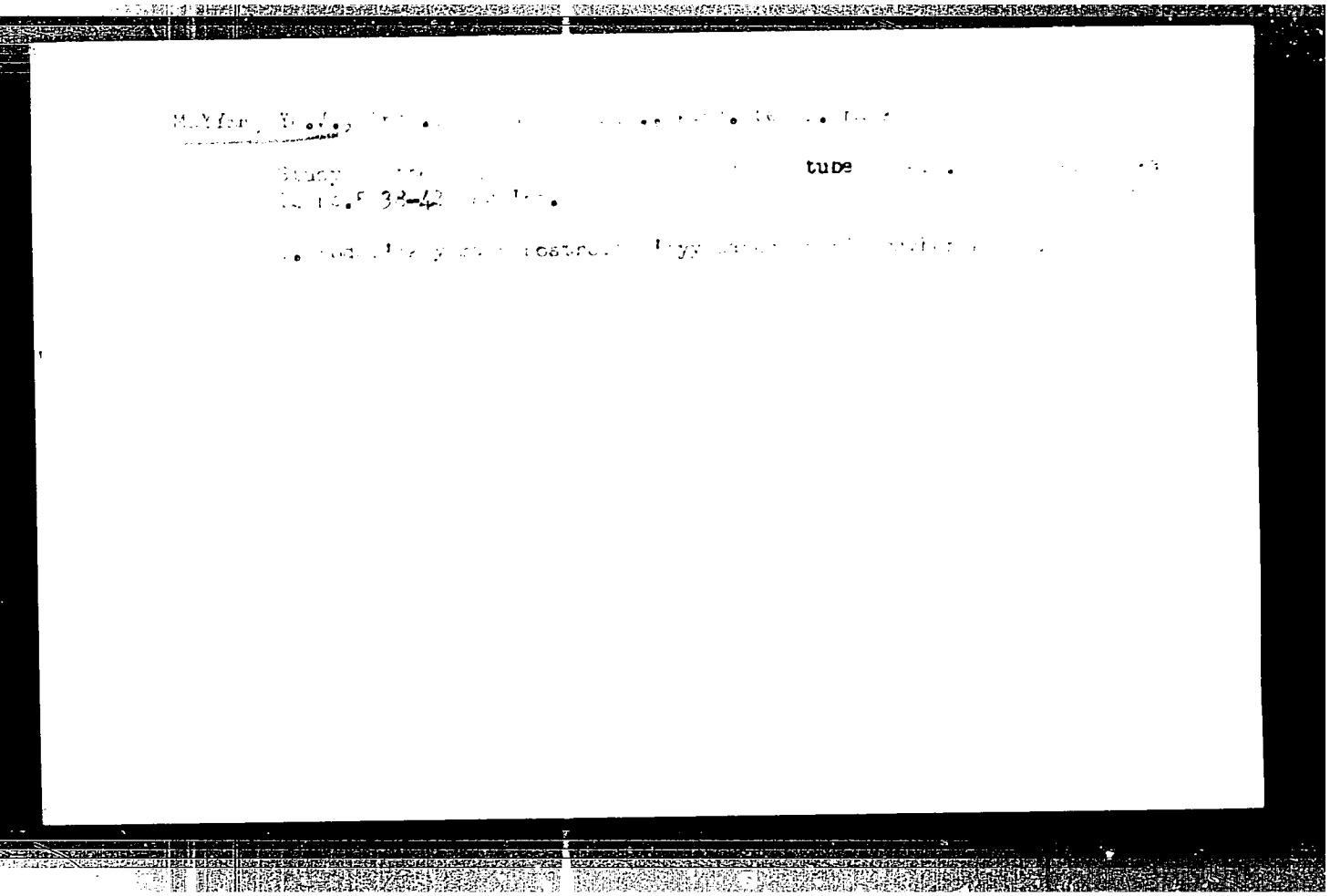
"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

DUCHINSKAYA, Yuliya Ivanovna; CHEBYSHEV, Aleksandr Grigor'yevich; KISELEVA, Ye.N., kand.tekhn.nauk, retsenzent; MEYYER, V.K., inzh., spetsred.; BESH, G.S., red.; TARASOVA, N.M., tekhn.red.

[Production of synthetic aromatic principles] Proizvodstvo sinteticheskikh dushistykh veshchestv. Moskva, Pishchepromizdat, 1959. 163 p. (MIRA 12:4)
(Flavoring essences)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7



tube

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYEROV, A.S., dotsent, kand.tekhn.nauk

Nomograph to calculate the depth of the fountain in drop wells in round pipes. Trudy GISI no. 40:67-71 '61. (MIRA 17:7)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYEROV, A.S.; KOZIN, V.N., otv. red.

[Hydraulics and applied aerodynamics] Gidravlika i prikladnaia aerodinamika. Gor'kii, Gor'kovskii inzhenerno-stroitel.in-t. Pt.2. [Aerohydrodynamics; manual] Gidroaerodinamika; uchebnoe posobie. 1964. 112 p.
(MIRA 17:10)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

GOLIKOV, Ye G., kand. tekhn. nauk; MEYYEROV, A.S., kand. tekhn. nauk, otv. red.

[Hydrology and hydraulic structures] Gidrologiia i gidrotekhnicheskie sooruzheniia. Gor'kii, Gor'kovskii inzhenerno-stroit. in-t, 1961. 284 p. (MIRA 17:9)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYEROVA, R.A.

Clinical structure of tick-borne encephalitis in some districts of Irkutsk Province. Trudy Irk. NIIEM no. 7:58-67 '62
(MIRA 19:1)

1. Iz gorodskoy klinicheskoy bol'nitsy Irkutska.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYEROVA, S.

After the seminar. Mest.prom. i khud.promys. 4 no.4:33 Ap '63.
(MIRA 16:10)

1. Glavnyy inzh. Gor'kovskoy fabriki basonnykh izdeliy.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYEROVICH, M.; KOLODIZH, B.; MURASHEV, G., red.; KOLINVA, Ye., red.

[Get acquainted with Yaroslavl! Short essay and guidebook] Znakom'tes', Iaroslavl'! Kratkii ocherk-putevoditel'. Izd. 2., ispr. i dop. Iaroslavl', Verkhne-Volzhskoe knizhnoe izd-vo, 1964. 50 p. (MIRA 18:3)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

SHALYGIN, L.M.; MEYYEROVICH, V.B.

Ways of accelerating the work of nonferrous metal converters.
TSvet. met. 33 no.7:16-19 Jl '60. (MIRA 13:7)

1. Leningradskiy gornyy institut (for Shalygin). 2. Belkhashskiy gorno-metallurgicheskiy kombinat (for Meyyerovich).
(Nonferrous metals--Metallurgy) (Converters)

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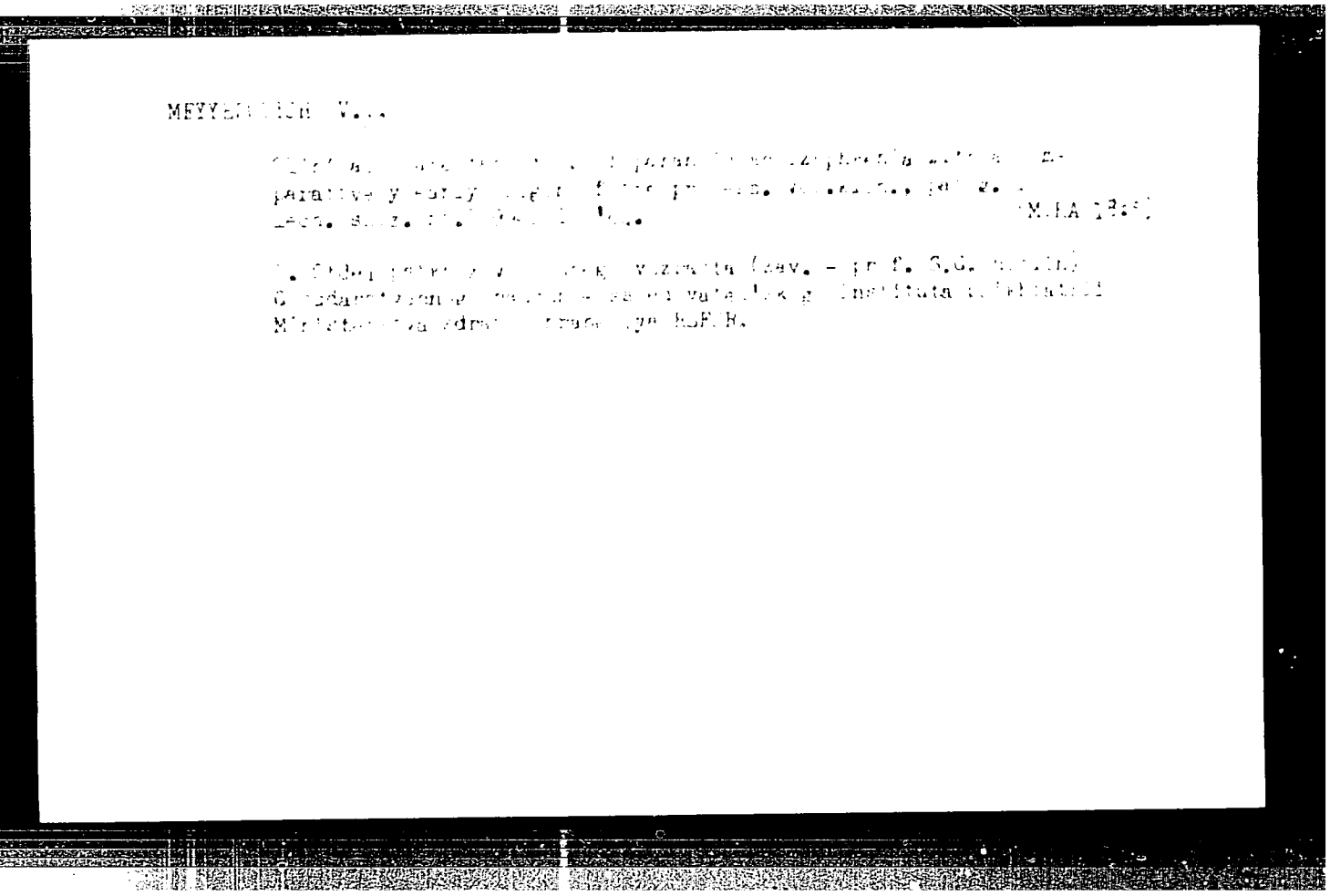
"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7



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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

Meyers, V.M.

B-5

Category: USSR/General Biology. Genetics.

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21506

Author : V.M. Meiera, E.R. Auzemus, F.K.S. Ku, K.I. Khsu
Inst : not given
Title : Resistance to rust in wheat and oats produced by ionizing radiation.

Orig Pub: V. sb.: Primenenie radioaktivnikh izotopov v promsti, meditsine i s. kh., M., AN SSSR, 1956, 525-532

Abstract: In order to breed types of oats and wheat resistant to stem-rust caused by Puccinia graminis tritici Eriks. Henn. and Puccinia graminis avenae Eriks. Henn., and also the kind of oats resistant to coronal rust caused by Puccinia coronata Eriks, the seeds of the originally non-resistant varieties were subjected to irradiation. Irradiated were: a variety of summer wheat Li, resistant to all rust strains except strain 15B; a variety of Ayaks oats sensitive to strain 8 of stalk rust; and a variety of Klintaf oats sensitive to

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

Category: USSR/General Biology. Genetics.

Abs Jour: Referat Zh.-Biol., No 6, 25 March 1957, 21566

strain 7 of stalk rust and to many widely distributed strains of coronal rust. Doses of roentgen rays 12,000-16,000 r and thermal neutrons $9.44.10^{12}/cm^2$ were used. The plants obtained from the treated seeds (generations X and N) were germinated alongside of a control on a provocative (?) background. In the Li variety in generations X_2 and N_2 resistant specimens were picked. All the control plants were non-resistant. In most cases generations N_3 and N_4 obtained from resistant plants of generation N_2 proved resistant, which indicates their homozygosis with respect to resistance. The generations X_3 and X_4 proved moderately resistant. In the Ayaks and Kiintaf varieties among families of generation N_2 resistant specimens were also picked; in addition, several mutants were found in the oat varieties with a chlorophyll deficiency. Whether the responsibility for resistance of the treated material depends on the same loci which determine the resistance of several existing varieties or other loci, is unknown so far. Even if the resistance is de-

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYERSON, YE. PA 26/49T68

USSR/Medicine - Hygiene and Sanitation Jul 48
Medicine - Epidemiology

"First Meeting of the Sanitation Epidemiological Workers of the Uzbek SSR," Ye. Vorontsova, Ye. Meyyerson, 2½ pp

"Gig i San" No 7

Reports Meeting in Tashkent in Feb 48, their discussions on Twelfth All-Union Meeting of Med Scientists, the activity of Uzbek SSR sanitation organization for the last 30 years, and their tasks in the Fourth Five-Year Plan.

26/49T68

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYYERSON, Ye. G.

YEMEL'YANOV, V.N., dotsent; MEYYERSON, Ye.G.

Public health in Yaroslavl Province; 1917-1957. Sov.zdrav. 16 no.10:48-54 O '57. (MIRA 10:12)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny (zav. - dotsent V.N.Yemel'yanov) Yaroslavskogo meditsinskogo instituta.
(PUBLIC HEALTH, hist.
in Russia)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

L 50735-65 EWT(1)/FCC GW

ACCESSION NR: AP5015324 UR/0286/65/000/009/0079/0079 16 B

531.787:621.3.067.002.56

AUTHOR: Auzin'sh, Ya. Yu.; Brede, Ya. F.; Ventin'sh, Ya. Ya.; Meyyershteyn, A. I.

TITLE: A device for calibrating pressure transducers in hydrometeorological instruments, e.g., radiosondes. Class 42, No. 170712

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 79

TOPIC TAGS: instrument calibration, meteorological instrument, radiosonde, photo cell, manometer

ABSTRACT: This Author's Certificate introduces: 1. A device for calibrating pressure transducers in hydrometeorological instruments, e.g. radiosondes. The unit contains an automatic recorder, a pneumatic system, photocells which are connected to a control unit, and a mercury manometer. The measurement arm of the manometer is connected to a pressure chamber which contains the radiosondes to be calibrated. The instrument is designed for improved efficiency and accuracy of calibration. Stationary screens are mounted along the measurement arm of the cistern-siphon manometer. These screens have diaphragms at levels which correspond to the measurement

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ACCESSION NR: AP5015324

program. The device also contains a movable rack which is connected with a step mechanism and has a single aperture opposite each photo relay. 2. A modification of this device which has a photo relay mounted at the reading level and connected through a control unit to the feed for the manometer tank. In this way the level of the mercury in the neutral arm of the manometer can be automatically maintained at a constant level and errors caused by changes in atmospheric pressure and mercury evaporation can be eliminated.

ASSOCIATION: Tsentral'noye proyektno-konstruktorskoye byuro mekhanizatsii i avtomatizatsii SNKh Latviyskoy SSR (Central Planning and Design Office for Mechanization and Automation, SNKh Latvian SSR)

SUBMITTED: 20Dec62 ENCL: 01 SUB CODE: IE, ES

NO REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

L 50735-65

ACCESSION NR: AP5015324 ENCLOSURE: 01

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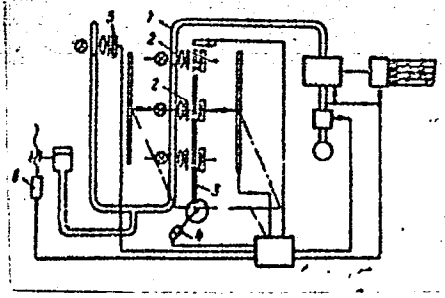

Fig. 1. 1--measuring arm of the manometer; 2--stationary elements with diaphragms; 3--movable rack connected to stepper; 4--stepper; 5--photo relay; 6--feed for the manometer tank

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy

Ileocelal productive tuberculosis. Polski tygod. lek. 10 no.26: 875-877 27 Je '55.

1. Ze Szpitala Miejskiego Nr. 4 w Warszawie; IV Oddzial Chirurgiczny ordynator dr med. W. Kaminski Warszawa, Zymierskiego 117 m. 14
(TUBERCULOSIS, GASTROINTESTINAL,
ileocecal hyperplastic productive, diag. & surg.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy

Posteperative potassium deficiency and its therapy. Polski tygod. lek.10 no.47:1530-1533 21 Nov. '55.

1. Z IV Oddz. chirurg. Szpitala Miejskiego Nr. 4 w Warszawie; ord: dr med. W Kaminski. Warszawa, ul. Zymirskiego 117 m.14.
(POTASSIUM, deficiency,,
postop.ther.)
(POSTOPERATIVE CARE,
potassium defic. management)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

POLAND / Human and Animal Physiology (Normal and Patholo- T
gical). Skin.

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 98020

Author : Meyza, Jerzy

Inst : Not given

Title : An Experiemnt in Treating Radiation Ulcers by Trypsin and Growth Hormone

Orig Pub: Nowotwory, 1957, 7, No 3-4, 271-278

Abstract: Successful results were obtained by application of dry powderlike trypsin (nine patients) and somatotropin (five patients). The latter is not recommended for application in presence of neoformations. --According to author's resume.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

Meyza, Jerzy

MEYZA, Jerzy (Warszawa, ul. Wawelska 15.)

Toxicity of certain methods of anesthesia in surgery of the abdominal cavity. Polskie tygod. lek. 12 no.44:1685-1688 4 Nov 57.

1. (Z IV Oddzialu Chirurg. Szpitala Miejskiego Nr 4 w Warszawie; ordynator dr med. W. Kaminski).

(ABDOMEN, surg.
anesth., tox. of methods of anesth. in surg. of abdom. cavity (Pol))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

*3858a. **The surgical treatment of mixed tumours of the parotid gland** Operacyjne leczenie guzów mieszanych przyusznicy. MEYZA J. Oddz. Chir. Inst. Onkol. im. Marii Skłodowskiej-Curie, Warszawa *Nowotwory* 1959, 9/1 (53–61) Tables 2 Illus. 4

The results in 75 patients are reported. In 67 cases the tumour was enucleated; in this group there were 14.7% recurrences and 24% with injury to the facial nerve. Altogether 84 operations were performed, and 19 patients had recurrences. The author now uses total parotidectomy with preservation of the facial nerve (14 cases). For evaluation of his results, follow-up is still too short. (XVI, 9)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy

Toxicological studies on alkylating substances used in extracorporeal circulation. Nowotwory 12 no.1:9-22 Ja-Mr '62.

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej Akademii Medycznej w Warszawie Kierownik Zakladu: prof. dr med. J. Walawski Z Oddzialu Chirurgicznego Instytutu Onkologii w Warszawie Kierownik Oddzialu: prof. dr med. T. Koszarowski Dyrektor Instytutu: prof. dr med. J. Laskowski.

(ANTINEOPLASTIC AGENTS toxicol)
(HEART MECHANICAL)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy

Trials of treatment of head neoplasms by fractionated intra-arterial administration of antimitotic drugs. Nowotwory 12 no.3: 227-237 '62.

1. Z Oddzialy Chirurgicznego Instytutu Onkologii w Warszawie Kierownik: prof. dr med. T. Koszarowski Dyrektor: prof. dr med. W. Jasinski.
(HEAD) (ANTINEOPLASTIC AGENTS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MALESA, Jan; MEYZA, Jerzy; MALINOWSKI, Zbigniew.

The isotope method of quantitative examination of leakage between the isolated and systemic circulation during chemotherapeutic perfusion. Nowotwory 12 no.4:357-363 '62.

1. Z Zakladu Fizyki Instytutu Onkologii w Warszawie Kierownik: mgr. inz. J. Malesa Z Oddzialu Chirurgicznego Kierownik: prof. dr med. T. Koszarowski i z Zakladu Izotopowego Kierownik: prof. dr med. W. Jasinski Dyrektor: prof. dr med. W. Jasinski.
(ANTINEOPLASTIC AGENTS) (PERFUSION)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

KOSZAROWSKI, Tadeusz; MEYZA, Jerzy; ROSNOWSKI, Andrzej; [illegible], Jan
KOLODZIEJSKI, Tadeusz

Intramural administration of mitotic poisons before gastrectomy (experimental studies in dogs). Nowotwory 14 no.3:201-206 Ag-S '64.

1. Z Oddziału [illegible] Instytutu Onkologii w Warszawie (Kierownik: [illegible] med. T.Koszarowski); z Zakładu Patologii Ogólnej i Doświadczalnej Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. J. Walawski); z Zakładu Anatomii Patologicznej Akademii Medycznej w Warszawie (p.o. Kierownika: doc. dr. med. R. Stanczyk) i z Pracowni Klinicznej Instytutu Onkologii w Warszawie (Kierownik: dr. J.Jarmolowicz; Dyrektor: prof. dr. med. W.Jasinski).

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy

Surgery in advanced stages of malignant diseases. Wiad. lek. 18 no.5:411-413 1 Mr '65

1. Z Oddzialu Chirurgicznego Onkologii w Warszawie (Kier. - nik Oddzialu: prof. dr. med. T. Koszarowski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy; KULAKOWSKI, Andrzej

Prolonged intra-arterial treatment of malignant neoplasms.
Nowotwory 15 no.1:11-16 Ja-Mr'65.

1. Z Oddzialu Chirurgicznego Instytutu Onkologii w Warszawie (Kierownik: prof. dr. med. T. Koszarowski; Dyrektor: prof. dr. med. W. Jasinski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy; KLEIN, Andrzej; CZERWINSKI, Wieslaw

Technic of intra-arterial infusion. Nowotwory 15 no.2:153-157 Ap-Je '65.

1. Z Oddzialu Chirurgicznego Instytutu Onkologii w Warszawie (Kierownik: prof. dr. med. T. Koszarowski; Dyrektor: prof. dr. med. W. Jasinski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

...ecteny in the treatment of some tumors of the parotid gland. Czas. stomat. 18 no.8/9:1139-1144 Ag-S '65.

... Oddziału Chirurgicznego Instytutu Onkologii w Warszawie ...ownik: prof. dr. med. T. Koszarowski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

KOSZAROWSKI, Tadeusz; MEYZA, Jerzy

Chemotherapy in the surgical treatment of neoplasms. Pol. tyg. lek. 20 no.26:947-948 28 Je '65.

1. Z Oddzialu Chirurgicznego Instytutu Onkologii w Warszawie (Kierownik Oddzialu: prof. dr. med. T. Koszarowski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZA, Jerzy; CZERWINSKI, Wieslaw

Combined chemico-surgical treatment of advanced melanoma. Pol. tyg. lek. 20 no.36:1362-1363 6 S '65.

1. Z Oddzialu Chirurgicznego Instytutu Onkologii im. Marii Curie-Sklodowskiej w Warszawie (Kierownik Oddzialu: prof. dr. med. T. Koszarowski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZEL', AL'BRIKHT

POLAND / Microbiology. General Microbiology F-1

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5113

Author : Meyzel', Al'brikht

Inst : Not given

Title : Effect of Glucose and Iron on Formation of Lecithinase by Cultures of Perfringen Bacteria Group.

Orig Pub : Acta microbiol. polon., 1956, 5, Nos 1-2, 77-78

Abstract : The addition of $CaCO_3$ and $CH_3COCOONa$ activates formation of lecithinase by Clostridium perfringens, especially on a medium with glucose. Removal of iron from the medium inhibits culture development; iron does not influence formation of toxin (I). Formation of I in a medium with glucose is brought about by acidification.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZEL', Maks Mikhaylovich, professor, doktor tekhnicheskikh nauk; MAKOVSKIY, M.Ye., kandidat tekhnicheskikh nauk, retsenzent; KOZLOV, B.P., kandidat tekhnicheskikh nauk, retsenzent; VARSHAVSKAYA, L.S., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Principles of automatic and remote control] Osnovy avtomatiki i telemekhaniki. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshlennosti SSSR, 1956. 402 p. (MLRA 9:12)
(Automatic control) (Remote control)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZEL', S. Ya.

"Studies of the Stability of the Parallel Operation of a Wind-Driven Electric Station Having an Inertia Accumulator (Fly Wheel) in a Commensurate Power System." Cand (field not given) Department of Mineral Resources, Acad Sci Kazakh SSR. (Vest Ak Nauk KazSSR, No 2, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZEL', Yu, M. —

"Influence of the Temperature of Suction Air on the Engine Admission for Various Cases of Mixture Formation." Sub 9 Jul 47, Military ed Banner Order of Lenin Aeronautical Engineering Academy imeni Prof N. Ye. Zhukovskiy

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No. 457, 18 Apr 55

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

Meyzerov, I V

112-2-4511

TRANSLATION FROM: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 2, p. 292 (USSR)

AUTHORS: Goshchitskaya, Ye. N., Meyzerov, I. V.

TITLE: The ЭМУ-2 and the ЭМУ-2П Type Electrometric Amplifiers (Elektrometricheskiy usilitel' tipa EMU-2 and EMU-2P)

PERIODICAL: Tr. Vses. n.-i. in-ta radioveshchat. priyema i akust., 1955, Nr 5, pp. 62-78.

ABSTRACT: The schematic diagram and construction of amplifiers intended for measuring small direct currents, or currents alternating at low frequency in high resistance circuits, or voltages in high and low resistance circuits are described in detail. The measurement ranges are: for current from $2 \cdot 10^{-14}$ to $7 \cdot 10^{-11}$ amp with an input resistance of $6 \cdot 8 \cdot 10^{-11}$ ohms and from 10^{-11} to $3 \cdot 10^{-8}$ amp with an input resistance of $1 \cdot 5 \cdot 10^{9}$ ohms; for voltage the range is 0.01 to 50 v. The error of measurement does not exceed $\pm$ 2 per cent. The time constant does not exceed 4 sec. The insulation resistance of the input circuit at room temperature and normal humidity is not less than 10^{14} ohms. The ЭМУ-2 amplifier is built, for convenience and stability of operation, as

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

The MY-2 and the MY-2II Type Electrometric Amplifiers (Cont.)

three independent units: an extension-type electrometric cascade with a 2Э2 П tube; a d-c amplifier built around five 12Ж1П electronic tubes and the power supply unit with electronic voltage stabilization (BC-14) with 5Ц4С, СГ-2С, СГ-4С, 6С4С and the 12Ж1П type tubes. The amplifier along with the electrometric cascade is covered by 100 per cent negative feedback. A multiscale indicating instrument (the M-24 microammeter operating at 200 μa was used) having the following measurement ranges was connected to the output: 0.03 to 0, 1 to 0, 3 to 1 to 3 to 10 to 30 and 100 v on the whole scale. Up to 45 - 50 v the amplitude characteristic of the ЭМУ-2 amplifier is linear. The ЭМУ-2П amplifier is an instrument of the panel type and is designed for industrial or laboratory installations of rack frame, rack bay or the back connected, switchboard type. The instruments are fed from 220 v ± 10 per cent a-c. Photographs of the exterior of the instruments and specifications are given.

E.P.S

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

SHEYVEKHMAN, B.Ye.; GLEKIN, G.V.; MEYZEROV, Ye.S.

Determining average values of the minimum intensity of sounds perceptible in silence to man. Trudy Inst.biol.fiz. no.1:238-246 '55. (MLRA 9:9)

(HEARING)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

Country	: USSR
Category	: Human and Animal Physiology, Sensory Organs
Abs. Jour.	: Ref Zhur Biol, No. 2, 1959, No. 8532
Author	: Sheyvekhman E., Glekin G., Meyzerov E.
Institut.	: --
Title	: Individual Limits in the Ranges of Values of the Minimal Sound Intensities Perceived by the Human in Silence.
Orig Pub.	: V sb.: Vospriyatiye zvukovykh signalov v razlich akust. usloviyakh. M., AN SSR, 1956, 83--91
Abstract	: A statistical work-up of 2000 audiograms showed that the spread ("range") of individual deviations from the mean value of thresholds is highest between 450--2000 cycles, which is the range of speech, and amounts to 29--34 decibels. In 75% of cases the deviation from the mean value did not exceed ±9.5 decibels, while in individual cases among the remaining 25% it amounted to 40--45 decibels.--A.D.Zh.
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T

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZEROV, Ye. S., Kh.. Kh. YARULLIN and A. G. KHANIN

"Experiments With Dogs."

report presented at the Conference on Influence of Ionizing Radiation upon the Higher Developed Parts of the Central Nerve System, Inst. of Higher Nervous Activity, AS USSR, 8-10 May 1958.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZEROV, Ye.S.

Effect of fractional whole-body X irradiations on conditioned reflex activity in dogs. Biofizika 4 no. 4:460-470 '59.
(MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(CONDITIONED RESPONSE)
(X RAYS--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

LIVSHITS, N.N.; MEYZEROV, Ye.S.

Effect of prolonged action of conditioned stimuli previously combined with X irradiation on the leucocyte and lymphocyte content of peripheral blood. Radiobiologiia 1 no.2:223-226 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(X RAYS--PHYSIOLOGICAL EFFECT) (LEUCOCYTES)
(CONDITIONED RESPONSE)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

L 47293-66 EEC(k)-2/EWT(1)/FCC/FSS-2 SCTB TT/DD/RD/GW

ACC NR: AP6031663 SOURCE CODE: UR/0216/66/000/005/0625/0643

AUTHOR: Frank, G. M.; Livshits, N. N.; Arsen'yeva, M. A.; Apanasenko, Z. I.; Belyayeva, L. A.; Golovkina, A. V.; Klimovitskiy, V. Ya.; Kuznetsova, M. A.; Luk'yanova, L. D.; Meyzerov, Ye. S.

ORG: Institute of Biological Physics, AN SSSR (Institut biologicheskoy fiziki AN SSSR)

TITLE: The combined effect of spaceflight factors on some functions of the organism

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 5, 1966, 625-643

TOPIC TAGS: central nervous system, biologic oxidation, biologic metabolism, reflex activity, brain tissue, radiation effects, ~~ionizing~~ radiation biologic effect, [illegible] radiation

ABSTRACT: Results of experiments studying the combined effect of spaceflight factors (acceleration, vibration, and radiation) on some functions of the organism (brain hemodynamcis, CNS functions, and cell division of hematopoietic organs) are discussed. Tolerance of the CNS to accelerations depends significantly on changes of brain hemodynamics during accelerations. Brain blood flow in rabbits subjected to centrifugal accelerations in the head-foot direction (5 G in head region and 10 G in pelvis region) for 12 to 60 sec decreased. This reaction was insignificant during the first exposure, sharply increased during repeated exposure, and weakened after chronic exposure, thus indicating that tolerance to accelerations can be

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increased by training. Participation of CNS reflex mechanisms in these processes is probable. The 15-min exposure of guinea pigs to radial accelerations (8 G), centrifuged twice with a one-day interval, increased the spontaneous bioelectrical activity of extensor muscles; however, the effect was not lasting. It was lowered the day after the second centrifugation and was essentially the same as the control from the sixth day. The 15-min exposure of the animals to vibrations (70 cps, 0.4 mm amplitude), twice with a one-day interval, produced less distinct but more stable changes, with normalization more than 25 days after the first vibration exposure. Changes in myoelectric activity during spaceflight (Sputnik-4) incorporated features of both acceleration and vibration effects, appreciably exceeding them in intensity. Oxidation processes in brain tissues, judged by P^{O}_{2} and "oxygen test" results, were initially increased in intensity by the effect of vibrations (using the above parameters), and subsequently underwent phase changes, including depression of oxidation metabolism during the aftereffect period. Changes in unconditioned defense and vestibulotonic reflexes and upper nervous activity were observed later than 12 days after vibration. Inhibition of food-procuring conditioned and defensive unconditioned reflexes in the majority of animals, with pronounced parabiotic phenomena, was also found. Exposure to 8-, 10-, and 20-G accelerations and vibration (700 cps, 0.005 mm, 60 min) resulted in decreased mitotic activity of bone-marrow cells for 30 days. Disturbances of cell division involved chromosomal stickiness and increase in the number of chromosomal aberrations. Ionizing radiations and the above dynamic factors produced a similar effect on oxidation metabolism in brain tissues and cellular division in hematopoietic organs. They differed

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only in the level and dynamics of changes caused. The combined effect of irradiation and dynamic factors either did not exceed or was less than the effect of each of the indicated factors separately, a phenomenon seen as a radioprotective action of dynamic factors. The relations observed are similar to phenomena of dominance and parabiosis. Typical radiation reactions were intensified when irradiation was combined with factors having directly opposed effects. The variation and complexity of results of the combination of dynamic factors and irradiation are explained by the multiplicity of the mechanisms of the combined effect of radiation and nonradiation factors. The combined exposure to vibration and whole-body acute irradiation at a lethal dose showed that in a majority of cases the vibration effect on metabolism and CNS function was dominant at early stages, while that of irradiation prevailed at later stages. At the latest stages of exposure, the combined effect of vibration and irradiation was diverse and complicated. According to some indices, the trend of changes corresponded to the effect of one of the factors while the dynamics of the processes reflected the effect of the other one. Under the uniform action of both factors, the phenomena of partial summation of weakening of the radiation effect, and in several cases of a sharp increase of radiation effect by the opposite action of the vibration effect, were observed. Probable mechanisms of the phenomena described are considered. Orig. art. has: 13 figures.

[SW]

SUB CODE: 06/ SUBM DATE: 14Dec65/ ORIG REF: 032/ OTH REF: 008/ ATD PRESS: 5095

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

L 07474-67 EWT(1) SCTB DD/HD

ACC NR: AT6025374 SOURCE CODE: UR/0000/66/000/000/0068/0080

AUTHOR: Livshits, N. N.; Mayzarov, Ye. S. 32 B+1

ORG: none

TITLE: Influence of vertical vibration and noise on the conditioned reflexes of rats

SOURCE: AN SSSR. Institut biologicheskoy fiziki. Vliyaniye faktorov kosmicheskogo poleta na funktsii tsentral'noy nervnoy sistemy (Effect of space flight factors on functions of the central nervous system). Moscow, Izd-vo Nauka, 1966, 68-80

TOPIC TAGS: biologic vibration effect, conditioned reflex, rat, neurology, acoustic biologic effect, reflex activity, light biologic effect

ABSTRACT:

According to Soviet literature, vibration most often causes a decrease or distortion of positive conditioned reflexes. However, some researchers have reported cases of increased activity. Latent periods usually increase, but occasionally stabilize. The present study was designed to obtain additional data on the effects of whole-body vertical vibration on higher nervous activity.

Card 1/6. UDC: 612.014.482

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

L 07474-67

ACC NR: AT6025374

The conditioned motor reflexes of rats were studied using a seven-component stereotype. A positive stimulus consisting of a 1000-cps tone ("TOH+") and light from a 2 w lamp were each used 3 times per test. Differentiation consisted of a 400 cps tone ("TOH-"), applied once per test. Food was denied animals for 4 hr before experimentation.

A total of 16 half-grown rats were used; 6 were exposed to vibration and 10 served as controls. Three experimental animals were used as controls before vibration tests. One experimental animal had unique higher nervous activity patterns and was not included in the statistically processed results. The remaining 5 experimental animals had 2 similarly behaved partners each in the control group.

Experimental animals were exposed to whole-body vertical vibration with an amplitude of 0.4 mm and frequency of 70 cps for 15 min. During the experiments the control partners were exposed to noise (75 db) from the vibration stand in nearby individual containers. The first and second exposures to vibration were separated by a two-week interval; the second and third exposures were separated by a one-week interval. Some results of these tests are shown in the following figures.

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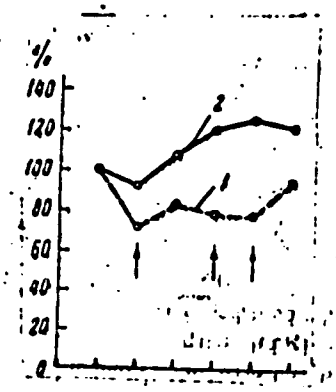

Fig. 1. The effect of vibration and noise on the mean total value of conditioned reflexes to positive stimuli Abcissa- time after the test in weeks; Ordinate-mean total value of the strength of conditioned reflexes expressed in percent of the normal level (taken as 100%). The mean strength of the reflex before exposure to experimental parameters was determined from 20--30 tests on each mouse. Postexperimental values reflect 6 tests. 1 - mice exposed to both vibration and noise; 2 - mice exposed to noise; arrows--exposures to experimental parameters.

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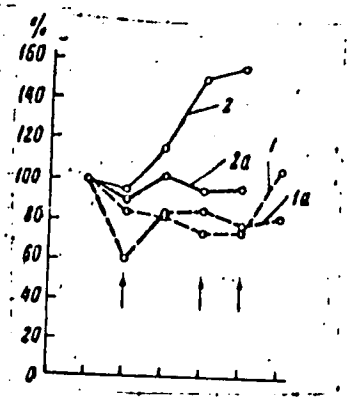

Fig. 2. The effect of vibration and noise on the mean strength of positive conditioned reflexes to a 1000-cps tone and light. Ordinate--mean strength of the conditioned reflex expressed in percent of the original value (taken as 100%). 1a, 2a -- 1000 cps tone; 1,2 light, Same conditions as for Fig. 1

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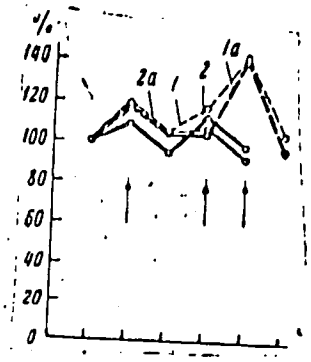

Fig. 3. The effect of vibration and noise on the mean latent periods of conditioned reflexes. Ordinate -- mean values of latent periods expressed percent of the original value (taken as 100%). 1a, 2a-1000 cps tone; 1,2-light; same conditions as for Fig. 1

From the figures it can be seen that there were significant differences between the combined effects of vibration and noise and the effect of noise alone. In the first case a general inhibition of conditioned reflexes was observed. The second parameter produced a significantly less pronounced local inhibition in the auditory analyzer. These changes in conditioned reflex activity of rats occurring under vibration/noise condi-

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ACC NR: AT6025374

tions depend on individual features of higher nervous activity and on the initial level of conditioned reflex. In rats with a high level of conditioned reflex activity, development of protective inhibition was noted. In rats with a low level of conditioned reflexes, disinhibition of conditioned reflexes and differentiation occurred.

Orig. art. has: 7 figures. [W.A. No. 22; ATD Report 66-99]
SUB CODE: 06 / SUBM DATE: 01Feb66

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

ACC NR: AT6036639 SOURCE CODE: UR/0000/66/000/000/0257/0258

AUTHOR: Livshits, N. N.; Apanasenko, Z. I.; Kuznetsova, M. A.; Luk'yanova, L. D.; Meyzerov, Y. S.

ORG: none

TITLE: Combined effect of vibration and ionizing radiation on the metabolism and function of the central nervous system /Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966/

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 257-258

TOPIC TAGS: space physiology, combined stress, biologic vibration effect, ionizing radiation biologic effect, muscle physiology, electrophysiology, central nervous system, rat, rodent

ABSTRACT:

Rats and guinea pigs were exposed to the complex effects of vibration (70 cps, 0.4 mm, 15 min) before, or both before and after, exposure to a single lethal dose (500--600 r) of ionizing radiation. The effect of this particular combination of stress factors was tested on oxidative processes in the brain tissues, on the characteristics of the vestibular reflex, and on the bioelectrical activity of skeletal muscles in a state of relative rest.

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Results showed a complete dominance of the effects of vibration.

Completely analogous results for vestibular reflexes were obtained when vibration was combined with prolonged gamma irradiation (500 r over a 14-hr period). Vibrational effects were also dominant with respect to conditioned feeding reflexes when vibration was followed by irradiation with a dose of 50 r.

This masking of the radiation effect was observed in those cases in which the effects of the two factors tended to counteract each other. But the masking effect was also observed when influences of the two factors were analogous and could be distinguished from each other only by their magnitude or dynamics. In this last case no summation of similar effects was observed, which can be attributed to the protective effect of vibration. The protective effect was confirmed by the fact that vibration tended to weaken leukopenia produced by radiation.

At the same time results were not completely uniform. The combined effect of vibration and either acute or fractionated irradiation on the basic characteristics of the unconditioned defense reflex showed that vibrational effects were dominant in some cases and radiation effects were domi-

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nant in others. Radiation effects tended to dominate as the time after exposure increased. Investigation of the oxidative processes in the brain tissues showed no summation of analogous effects even at the later stages of the investigation. However, when observations were made of functional changes of various parts of the central nervous system, a complex combined effect of both factors was found, which does not fit the pattern of the protective effects of vibration.

The variety of changes in radiation effects due to the influence of vibration can be explained by the multiplicity of mechanisms of combined effects of radiation and vibration. The more significant factors which can affect the influence of radiation are: the oxygen effect, changes in the functional condition of the central nervous system due to effects of vibration, interaction between centers of the nervous system, the course of reparative and compensatory processes, and others. [W. A. No. 22; ATD Report 66-116]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

ACC NR: AT6036644 SOURCE CODE: UR/0000/66/000/000/0266/0268

AUTHOR: Luk'yanova, L. D.; Kazanskaya, Ye. P.; Pol'tsova, A. V.; Meyzerov, Ye. S.

ORG: none

TITLE: Investigation of the interdependence between the functional activity of the brain and brain oxygen metabolism during stimulation by vibration [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny. 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 266-268

TOPIC TAGS: vibration biologic effect, central nervous system, electroencephalography, oxygen consumption

ABSTRACT:

After exposure to vibration (70 cps, 0.4 mm, 15 min) a phase character in changes of various indices of higher brain sections is observed. One min after exposure to vibration, slow (1--3 c/s), high voltage (500--700 μV), hypersynchronized waves (HSW) were noted in the EEG's of animals. These were especially pronounced in the sensorimotor and visual cortices and coincided with a sharp increase in oxygen consumption in all sections of the brain. Repeated exposure caused a stage of HSW generalization in all brain sections subsequent to their concentration. When oxygen consumption in

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animals decreased during stressor stimulation, HSW was either irregular or did not occur.

A sharp decrease in oxygen consumption, disappearance of HSW, and manifestations of burst activity were noted after vibration in all brain sections. At the same time, a complete disinhibition of conditioned and unconditioned reflexes was noted, which indicated the development of generalized inhibition in higher brain sections. A two-wave decrease in oxygen consumption after vibration coincided in time with a two-phased intensification of the superslow potential and an intensification of hourly fluctuations. All this indicated a sharp disruption in normal functional nervous system interrelationships during this period.

The multiple application of a vibration stimulus caused an intermediate state characterized by compensation, adaptation, and relative functional normalization. A decrease in brain metabolic shifts was noted especially after vibration. The latent period of HSW development steadily increased in the visual and sensorimotor sections of the brain. Dominating rhythm in the auditory cortex and motor region of the subcortex became low-frequency (8--12 oscillations/sec), synchronized rhythms superimposed on HSW. The number of "fluctuations" and burst activity after vibration decreased and

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the duration of the normalization of these parameters was shortened after each exposure to vibration. Almost immediately after vibration, natural and conditioned reflexes were observed. The period of relative normalization during the repeated action of vibration alternated with a period of disrupted compensation and adaptation as reflected in a steady depression of rhythms during and after vibration. The level of conditioned reflexes decreased compared to normal levels and did not recover until 3 weeks after termination of the final exposure to vibration. The phase of increased oxygen consumption developing during vibration was not replaced by a decrease phase and continued to increase steadily. The artificial exclusion of peripheral impulsation by means of the partial exclusion of auditory and vestibular analyzers decreased the effect of vibration stimulus on the EEG of animals and brain metabolism. The establishment of compensatory adaptations took place without lowering the general functional level.

These data indicate that during multiple exposure to vibration, a general decrease in the excitability of the central nervous system to peripheral impulsation occurs as a result of the depletion of neural processes.

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ACC NR: AT6036640 SOURCE CODE: UR/0000/66/000/000/0259/0260

AUTHOR: Livshits, N. N.; Meyzerov, Ye. S.

ORG: none

TITLE: Combined effect of vibration and ionizing radiation on conditioned-reflex activity in rats [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 259-260

TOPIC TAGS: space physiology, combined stress, biologic vibration effect, ionizing radiation biologic effect, conditioned reflex, central nervous system, rat

ABSTRACT:

Experiments were performed in order to determine the combined effects of radiation and vibration on higher nervous activity. Experiments were performed on rats of the "Wistar" strain. The animals were divided into four groups. Group I was subjected to vibration (70 cps, 0.4 mm, 15 min) followed by an x-ray dose of 50 r. Group II was exposed only to radiation (same dose as above). Group III was exposed to vibration alone (as above). Group IV served as controls. The animals were exposed to the stress factors three times, with a 14-day interval between the first and second exposures

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and a seven-day interval between the second and third exposures.

After the first exposure to vibration, a weakening of conditioned reflexes was observed accompanied by a disruption of the proper power relationships. During the second week after exposure, a tendency was noted for higher nervous activity to return to preexposure levels.

Exposure to radiation caused an initial rise in conditioned-reflex activity, accompanied by correct power relationships. During the second week, a drop in conditioned-reflex activity was observed.

Rats which had been exposed to combined effects manifested primarily vibration influences during the first few days after the first exposure. During the second week after exposure, the dominant effect of vibration was replaced by a combination of vibration and radiation effects, with evidence of partial summation.

The second and third exposures to radiation caused a further drop in positive conditioned reflexes with a disruption of correct power relationships. Repeated exposures to vibration also caused a lowering of conditioned reflex activity accompanied by an increase in the number of phase

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phenomena, in approximately the same degree as after the first exposures.

Rats exposed to combined effects manifested a considerably less marked lowering of reflex activity than was observed as a result of exposure to either of the stress factors alone. According to this criterion, the effects of vibration and radiation showed results of complete summation. From certain other criteria it appeared that the effects of combined exposure resulted in an intermediate condition between the effects of vibration and of radiation. The predominant effects of vibration after repeated exposures to combined factors, which were noted by some experiments using other criteria, did not appear on the particular function being tested. In this case the effect of both factors showed summation. [W.A. No. 22; ATD Report 66-116]

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L 07480-67 EWT(m) GD
ACC NR: AT6025383 SOURCE CODE: UR/0000/66/000/000/0180/0196

AUTHOR: Meyzerov, Ye. S.

36
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ORG: none

19

TITLE: Comparative effects of total-body chronic and acute irradiation on the higher nervous activity of white rats

SOURCE: AN SSSR. Institut biologicheskoy fiziki. Vliyaniye faktorov kosmicheskogo poleta na funktsii tsentral'noy nervnoy sistemy (Effect of space flight factors on functions of the central nervous system). Moscow, Izd-vo Nauka, 1966, 180-196

TOPIC TAGS: gamma irradiation, rat, conditioned reflex, dosimetry, radiation, instrument, blood, hemoglobin, physiologic parameter, central nervous system, cardiovascular system, neuron / GUBE-800 radiation instrument

ABSTRACT:

The conditioned-reflex activity of gamma irradiated rats was studied using the Kotlyarevskiy method for monitoring the motor food response. Male Wistar rats weighing 160-180 g were exposed to stimuli as shown in Table 1.

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Table 1. Experimental conditions

conditioned stimulus	stimulus duration, sec	duration of isolated stimulus action, sec
tone 1--800 cps (35 db)	10	5
red light (8-w lamp)	10	5
red light (8-w lamp)	10	5
tone 1, 800 cps (35 db)	10	5
tone 2, 400 cps for differentiation (30 db)	10	-
tone 1, 800 cps (35 db)	10	5
red light (8 w-lamp)	10	5
tone 1, 800 cps (35 db)	10	5

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The interval between stimuli varied according to the position of the animal's head with respect to the feeder. Characteristics of reflex activity were established after 45--50 tests to ensure statistical reliability. In order to reveal the typological peculiarities of experimental animals, the following approaches were used: 1) prolonging differentiation up to 3 min; 2) daily starving; 3) caffeine administration; 4) effects of external inhibition; and 5) exercise before testing. After a stereotype had been established, variations in normal conditioned reflexes had been studied and typological peculiarities had been identified, the animals (which weighed 260--280 by this time) were exposed to radiation.

Chronic irradiation was administered to animals in a specially designed container which could be monitored dosimetrically. Co^{60} (125 mcu) was used as the source and animals were located 80 cm from it. Dose power was 0.276 r/hr. Animals were irradiated daily for 22 hr and the total daily dose was 6.07 r. Irradiation proceeded until a total dose of

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160 r had accrued.

Acute radiation took place in a GUBE-800 apparatus, where the dose power was 85 r/min and the total dose was 160 r (2 min).. Both chronically and acutely irradiated animals were examined for 100 days.

Neither chronic nor acute irradiation affected body weight or general habits. It did, however, bring about a decrease in the number of leukocytes and erythrocytes, and in peripheral blood hemoglobin content.

It was found that chronic irradiation sharply affects higher nervous activity. After severe disruptions of higher nervous activity during the first days of irradiation, a phase of moderate improvement developed, which had no influence on the final irradiation effect.

Chronic and acute irradiation had similar effects on the conditioned-reflex activity of rats. However, experimental results showed that chronic irradiation has a more profound effect, according to some higher nervous activity indices monitored. While this effect was noticeable (and statistically reliable), it was not great.

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More pronounced general decreases in peripheral blood components were observed in chronically irradiated animals. Central nervous system reactions to chronic radiation were generally more severe than disruptions noted during acute radiation.

The results of these tests differ from data obtained by some foreign researchers, which indicate a direct dependence between dose power and the magnitude of CNS disruption in the 1000-r range. It is therefore proposed that different mechanisms are responsible for radiation effects in different dose ranges. In particular, vascular function may play a strong role in higher dose ranges. The fact that chronic irradiation had a profound effect on higher nervous activity may indicate that a higher number of functionally active neurons are affected under these conditions. The author thanks Doctor of Biological Sciences N. N. Livshits for suggesting the topic and directing the work. Orig. art. has: 7 figures and 2 tables. [W.A. No. 22; ATD Report 66-99]

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

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MEYZIKOVA, A. A.

BARDYSHEV, I.I., doktor khimicheskikh nauk; GUSAKOVA, M.V., inzhener; ERILANE, A.F., inzhener; MEYZIKOVA, A.A., inzhener.

Quality of turpentine oil. Der i lesokhim.prom. 3 no.8:12-15 Ag '54. (MLRA 7:8)

1. Kiyevskiy lesokhimicheskiy zavod (for Erilane, Meyzikova) 2. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut (for Bardyshev, Gusakova)
(Turpentine)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

KALINICHUK, Ye.M.; MEYZIKOVA, A.Ye.

Rapid method for detection of water in turpentine. Ukrain. Khim. Zhur. 18, 76-81 '52. (MLRA 6:4)
(CA 47 no.22:12835 '53)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

BARDYSHEV, I.I.; ERILANE, A.F.; MEYZIKOVA, A.Ye.

Improving the process of manufacturing ester gum. Gidroliz. i lesokhim. prom. 9 no.2:12 '56. (MLRA 9:7)

1.Institut khimii Akademii nauk BSSR (for Bardyshev).2.Kiyevskiy lesokhimicheskiy zavod (for Erilane, Meyzikova).
(Ester gums)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

Meizler, D. G., Parasyuk, O. S., and Rvaćeva, E. L. A multidimensional local limit theorem of the theory of probability. Doklady Akad Nauk SSSR (N.S.) 60 1127–1128 (1948). (Russian)

The authors generalize Gnedenko's result [of the preceding review] to multidimensional random variables. The proof is omitted. *J. L. Doob* (Urbana, Ill.).

Source: Mathematical Reviews, Vol 10 No. 2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZLER, D.G.; PARASYUK, O.S.; RVACHEVA, Ye.L.

Multivariate local limit theorem in the theory of probabilities.
Ukr.mat.zhur. [1] no.1:9-20 '49. (MLRA 7:10)
(Probabilities)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MEYZLER, D.G.

One problem of B.V.Gnedenko. Ukr.mat.zhur. [1] no.2:67-84 '49.
(Probabilities) (MLRA 7:10)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

1. MEYZNER, D. G.

2. USSR 600

4. Series

7. On a theorem of B. V. Gnedenko, Sbor. trud. Inst. mat. AN USSR, No. 12, 1949.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

MELZLER, D G

Melzler, D. G. On the limit distribution of the maximal term of a variational series. Dopovidi Akad. Nauk Ukrain. RSR. 1950, 3–10 (1950). (Ukrainian Russian summary)

Let x_n be a sequence of mutually independent random variables with distribution function $F_n(x)$. Let

$$\xi_n = \max(x_1, \cdots, x_n) \quad \text{and} \quad G_n(x) = \Pr\{\xi_n \leq x\} = \prod_1^n F_i(x).$$

For the case $F_n(x) = F(x)$ Gnedenko [Ann. of Math. (2) 44, 423–453 (1943); these Rev. 5, 41] found all possible limiting distributions of sequences $G_n(a_n x + b_n)$ and gave criteria for the occurrence of the various cases. This theory is here generalized to the case of unequal components. The same problem was treated in a similar way by Juncosa [Duke Math. J. 16, 609–618 (1949); these Rev. 11, 375].

W. Feller (Princeton, N. J.).

Source: Mathematical Reviews, Vol 13 No. 7

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730007-7

VALEYEV, A.M.; GOLEV, Yu.D.; GOLEVA, Z.N.; GOLOVKO, R.Ye.; ZAV'YALOVA, B.A.; ZARETSKIY, B.A.; ZVEREV, Ye.A.; LIPINSKIY, F.A.; MANGUSHEV, I.Kh.; MEYZLER, M.Kh.; MUTOVKIN, V.A.; RUDAKOV, Ya.D.; RUKOVANOV, B.P.; KHASANOV, G.M.; ESTRIN, Z.I.; ZUDIN, B.A., red.; BORUNOV, N.I., tekhn. red.

[Adjustment and operation of equipment in the Novo-Ufimskii Heat and Electric Power Plant] Naladka i ekspluatatsiia oborudovaniia na Novo-Ufimskoi TETs. Moskva, Gos. energ. izd-vo, 1961. 175 p. (MIRA 14:9)
(Bashkiria—Electric power plants)
(Bashkiria—Heating from central stations)

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L 07472-67 EWT(1) SCTB DD/OD

ACC NR: AT6025377 SOURCE CODE: UR/0000/66/000/000/0105/0124

AUTHOR: Luk'yanova, L. D.; Kol'tsova, A. V.; Meyzorov, Ye. S.; Kazanskaya, Ye. P.

37
B+1

ORG: none

TITLE: Investigation of the connection between cerebral oxygen metabolism, its electrical activity, and the conditioned reflex activity of animals after vibration

SOURCE: AN SSSR. Institut biologicheskoy fiziki. Vliyaniye faktorov kosmicheskogo poleta na funktsii tsentral'noy nervnoy sistem (Effect of space flight factors on functions of the central nervous system.) Moscow, Izd-vo Nauka, 1966, 105-124

TOPIC TAGS: bioelectric phenomenon, rat, cerebrum, biologic vibration effect, conditioned reflex, oxygen consumption, eeg, biologic metabolism, reflex activity

ABSTRACT:

Methods used in previous studies by the author were applied to this expanded study of the effects of vibration (70 cps, 0.4 mm, 15-min exposure duration, up to 30 exposures) on the cerebral activity of rats. As in a previous study, vibration caused phased shifts in some indices of the functional condition of the brain.

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The first phase, which occurred after 1--4 exposures, was characterized by the development of general inhibition in the form of decreased cerebral oxygen consumption, corresponding EEG changes, intensification of very slow oscillations of the potential, and complete elimination of conditioned reflexes.

The second phase, which occurred after the fourth exposure, was marked by the development of compensatory and adaptive processes and relative functional normalization. Diminished changes in oxygen metabolism were observed, together with corresponding EEG indexes and the recovery of natural conditioned reflexes followed by the development of artificial reflexes (those induced by experimental parameters).

The third phase, occurring after 20--25 exposures, was characterized by a general decrease in the functional activity of upper cerebral centers. Oxygen consumption decreased, bioelectrical activity during and after vibration was depressed, and conditioned reflex activity was maintained at a low level long after the last exposure. Orig. art. has: 10 figures and 1 table. [W.A. No. 22; ATD Report 66-99]

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SKUJANS, , dots., kand. sel'khoz.nauk; [illegible], [illegible]., [illegible] khoz. nauk, izpolnyal [illegible].; NEILANDE, A., red.

[Soil research [illegible]] [illegible]

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